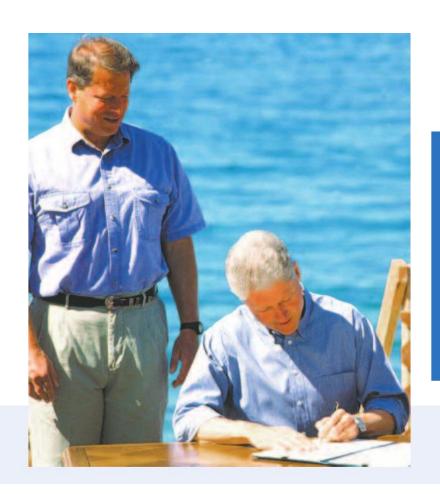






EIP History





We have a shared responsibility to build on our commitment at all levels to be sure the Lake and its environs are protected.

President Bill Clinton, Lake Tahoe Presidential Forum, July 26, 1997

FEDERAL AGENCIES



Army Corps of Engineers

Bureau of Land Management

Bureau of Reclamation

Federal Highway Administration

Federal Transit Administration

Natural Resources Conservation Service

National Aeronautics and Space Administration (NASA)

USDA Forest Service

U.S. Environmental Protection Agency

U.S. Geological Survey

U.S. Fish & Wildlife Service

STATES OF CALIFORNIA AND NEVADA



CAL FIRE

California Air Resources Board

California Conservation Corps

California Department of Fish and Wildlife

California Department of Water Resources

California Environmental Protection Agency

California Natural Resources Agency

California State Lands Commission

California State Parks

California Tahoe Conservancy

California Water Quality Control Board-

Lahontan Region

California Wildlife Conservation Board

Caltrans

UC Davis/Tahoe Environmental Research Center



Nevada Division of State Lands

Nevada Tahoe Resource Team

- · Nevada Division of Forestry
- Nevada Division of State Parks
- · Nevada Department of Wildlife

Nevada Department of Transportation

Nevada Division of Environmental Protection

Nevada Public Utilities Commission

University of Nevada, Reno

Desert Research Institute

REGIONAL





PARTNERSHIPS MAKE THE EIP POSSIBLE

LAKE TAHOE

ENVIRONMENTAL IMPROVEMENT

PROGRAM





LOCAL GOVERNMENTS/ORGANIZATIONS













Carson City

Carson City Fire Department

Cave Rock Estates General Improvement District

City of South Lake Tahoe

Douglas County

El Dorado County

Fallen Leaf Fire Department

Incline Village General Improvement District

Kingsbury General Improvement District

Lake Tahoe South Shore Chamber of Commerce

Lake Valley Fire Protection District

Lakeridge General Improvement District

Meeks Bay Fire Protection District

Nevada Tahoe Conservation District

North Lake Tahoe Fire Protection District

North Lake Tahoe Resort Association

North Tahoe Fire Protection District

North Tahoe Public Utility District

Placer County

Round Hill General Improvement District

South Tahoe Public Utility District

Sugar Pine Foundation

Tahoe Institute for Natural Science

Tahoe Rim Trail Association

Tahoe Science Advisory Council

Tahoe City Public Utility District

Tahoe Douglas Fire Protection District

Tahoe Resource Conservation District

Town of Truckee

Washoe County

Washoe Tribe of Nevada and California



Edgewood Companies Heavenly Mountain Resort

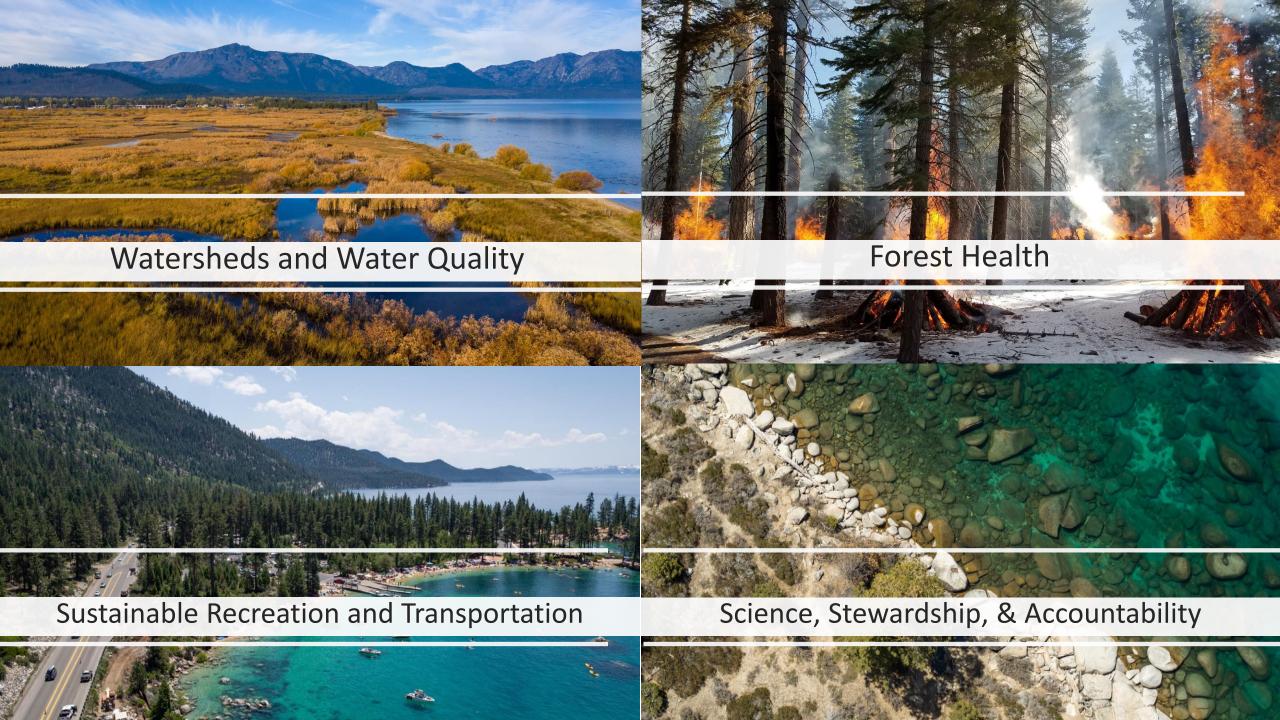
Lake Tahoe Marina Association League To Save Lake Tahoe

Liberty Utilities

NV Energy

Tahoe Keys Property Owners Association Tahoe Lakefront Owners' Association

Tahoe Partnership





FUNDING



EIP INVESTMENT BY FUNDING SECTOR

2

Time Period to View

All Years (1997 - 2021)

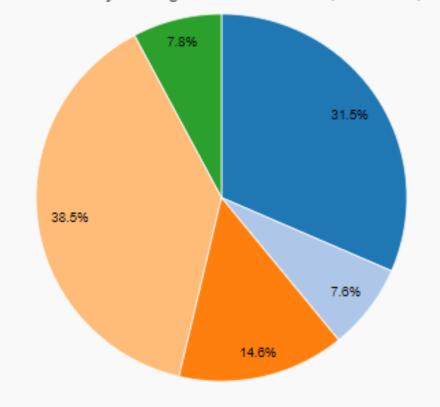


Select a sector to view the projects funded by that sector

Funding Sector		# of Funding Sources	# of Funding Organizations	\$ in All Years (1997 - 2021)
	Federal	51	15	\$828,878,350
	Local	38	22	\$199,136,628
	Private	34	31	\$382,985,640
-	State California	46	18	\$1,013,256,193
-	State Nevada	16	9	\$204,508,073
Total		185	95	\$2,628,764,884

The EIP completed **763** projects within the selected time period. This includes projects in Complete and Post-Implementation stages.

Investment by Funding Sector for: All Years (1997 - 2021)



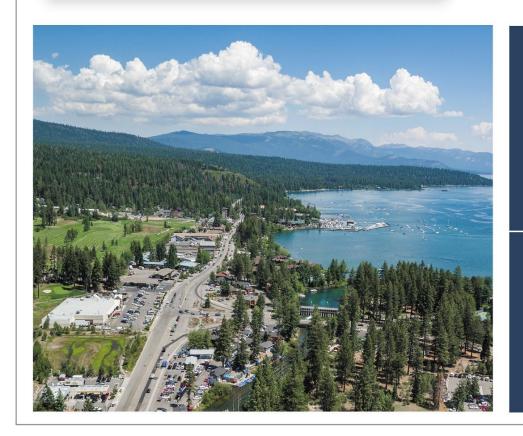


Economic Analysis



EIP ECONOMIC ANALYSIS

In 2020, EIP partners completed an analysis to quantify the impact of the EIP on the region's economy.



ECONOMIC FINDINGS

\$2.6 billion

in EIP direct investment since 1997

\$5.2 billion

in total economic output to the region since 1997

The EIP supports an average of

1,700 jobs a year. \$1 million in EIP spending generates

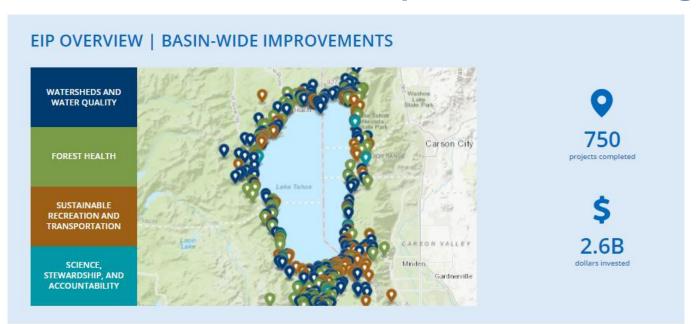
\$1.6 million in total economic output.

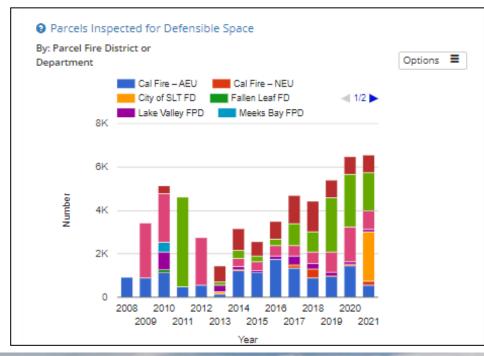


Tracking and Accountability

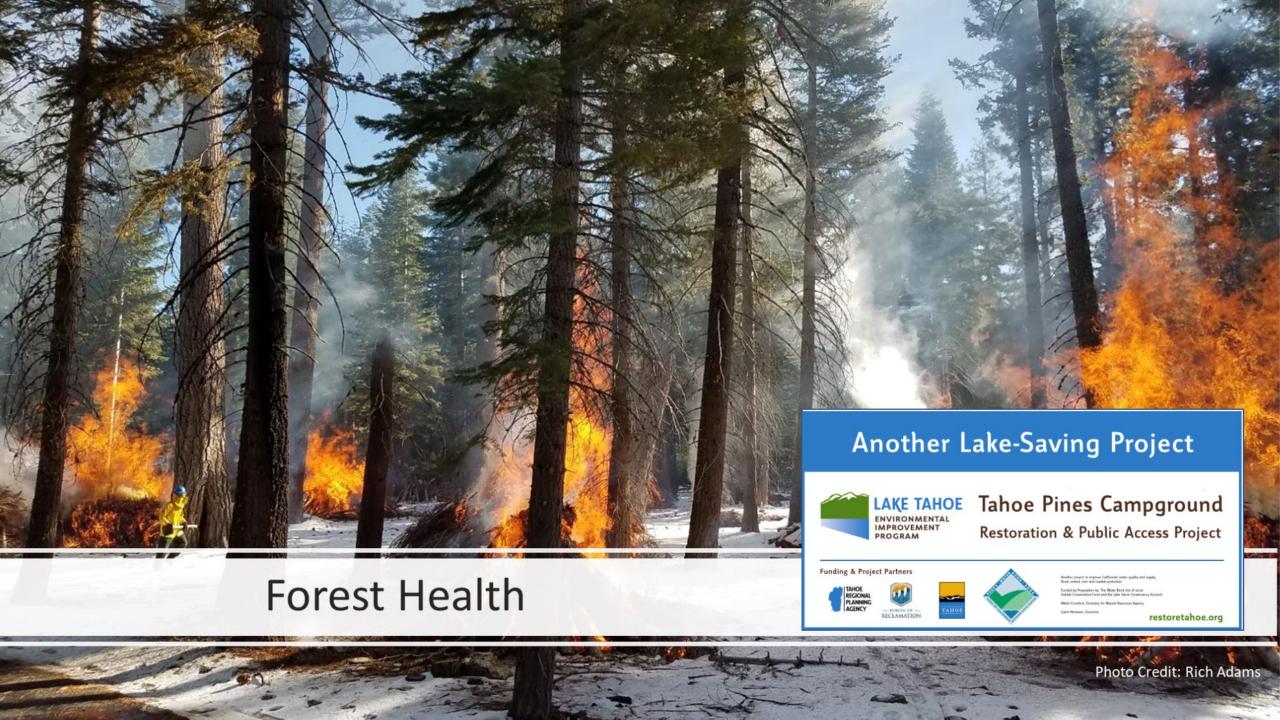


Eip.laketahoeinfo.org

















Forest Health Initiatives

Anna Higgins

Forester III

NV Tahoe Resource Team

Nevada Division of Forestry





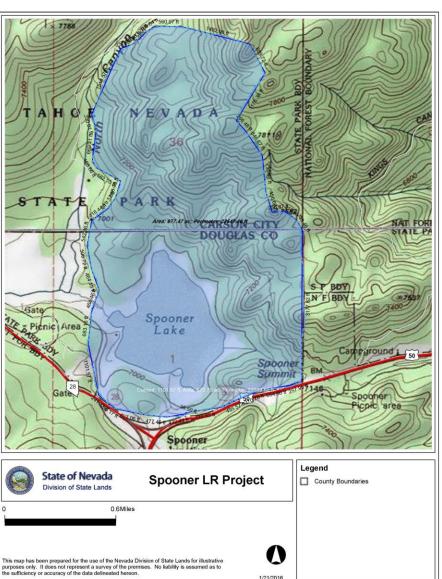




Spooner Landscape Restoration Project

Timeline:

Helicopter logging – 2018 Hand thinning and piling – 2019 Pile burning – 2021 & 2022 Hand thinning and piling – 2022 Pile burning – 2022 & 2023





















Spooner Landscape Restoration Project

2022 Accomplishments (so far)

150 acres treated 1350 piles burned

2022 Activities (moving forward)

Spooner Lake forest health

Aspen restoration

North Canyon Rd. fuel break











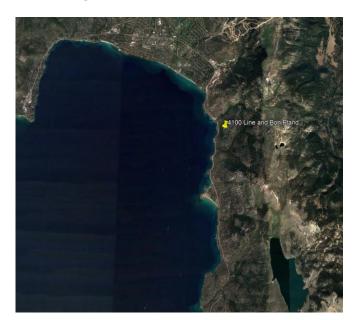




NVE 4100 Line & Bon Pland Projects

Timeline:

Hand thinning and piling – 2020-2022 Pile burning – 2022-2023

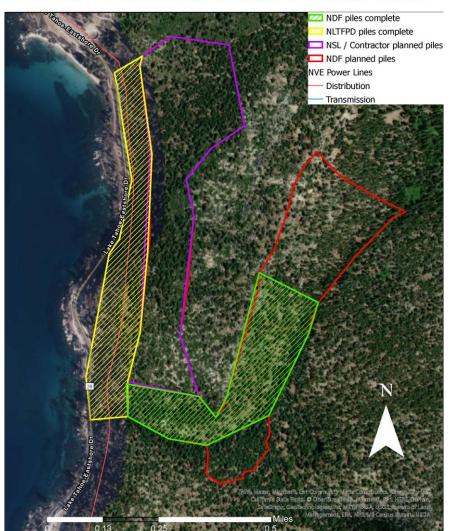








4100 Line - fuel break collaboration

























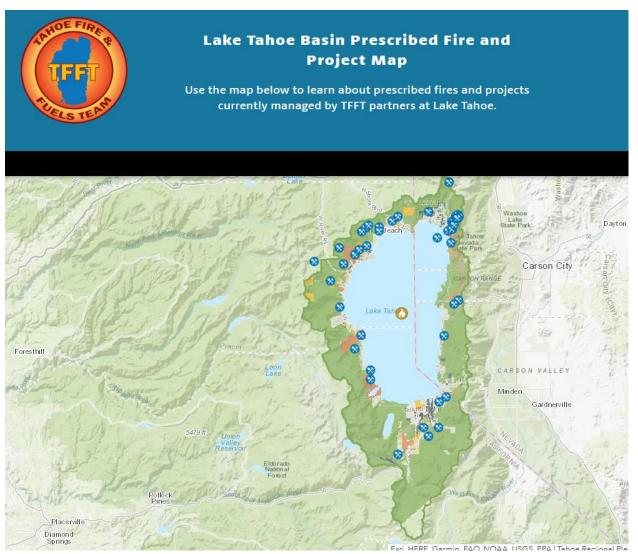


Anna Higgins ahiggins@forestry.nv.gov

tahoelivingwithfire.com

tahoelivingwithfire.com/get-informed/ (prescribed fire map)

alertwildfire.org (smoke cameras)















SUSTAINABLE RECREATION AND TOURISM

SPOONER FRONTCOUNTRY IMPROVEMENTS

- Project Need / Early Planning
- 2021 Work Completed / 2022 Work Underway
- Tahoe East Shore Trail Connection
- Park Closures and Future Work









TRAILHEAD FACILITY/RESTROOMS PERSPECTIVE

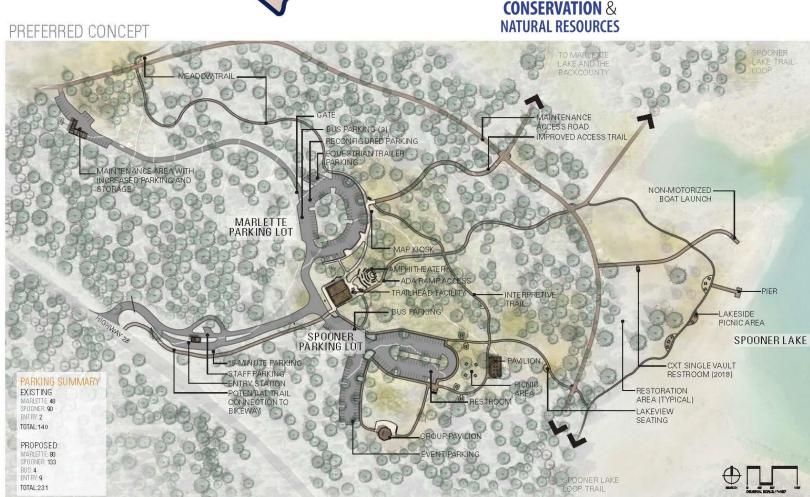




















SUSTAINABLE RECREATION AND TOURISM

SAND HARBOR VISION PLAN

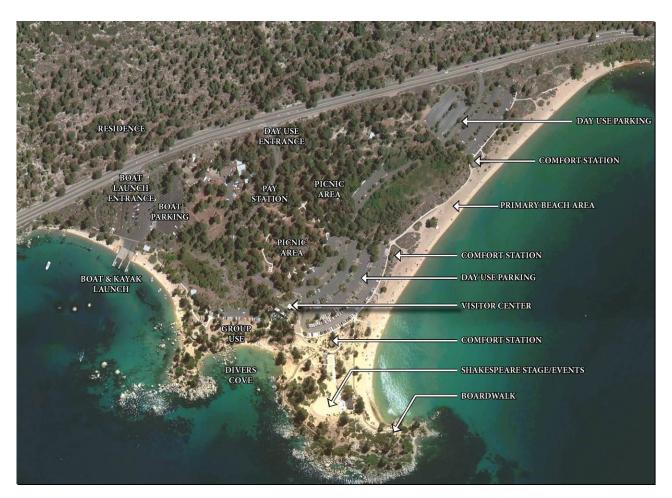
- Vision Plan Concept Holistic View of Facilities
- Review of Existing Facilities / Conceptual Options
- Tahoe East Shore Trail Coordinated Strategy
- Public Outreach

























Jay Howard

Nevada Tahoe Resource Team

Nevada Division of State Parks

Email: j.howard@parks.nv.gov

Website: parks.nv.gov

lands.nv.gov







Sustainable Recreation and Transportation



SR 28 Corridor Management Plan & Tahoe East Shore Trail





























SR Corridor Management Plan Partners

SAFETY

ENVIRONMENT

TRANSPORTATION

Access
User Experience
Scenic Experience
Water and Air Quality
Mobility Choice
Resource Management
Parking and Carrying Capacity
Fire Management
Utilities and Infrastructure
Physical Constraints/Topography
Multi Jurisdictional Authority

ECONOMIC

RECREATION/ VISITOR EXPERIENCE













Safety issues and "social trails" result from 2,500 people/ day shoulder-parking on 28.

170%
growth in parked vehicles between 2000 and 2011



Congestion
hinders emergency
vehicle access.









Recommendations



Bikeway provides safe access with connectivity to parking and trails





East Shore Express
Transit to manage peak
demand access and
ensure a quality user
experience.









Incline to Sand Harbor -3 miles of shared use path completed



- Opened June 2019
- ~200,000 users
 - 27% to shoreline
 - 15% back country
 - 53% walking/biking trail
 - 5% bike shop/restaurant



- Demand-based parking management
 - License plate and credit card required
 - "Come Early Come Late and Pay a Lower Rate"
 - Fees help to operate and maintain the trail and parking
 - Increased carpooling at peak times









40,000 Riders on Tahoe East Shore Express

- Began service in 2012 as envisioned in the SR 28 Corridor Management Plan
 - Shared vision of 13 partner agencies of the CMP to intercept vehicles at each end of SR28 Corridor and shift demand to transit
- Developed multiple supporting documents to evaluate the potential locations. A permanent location to be assessed in 22/23
 - 2012 East Shore Express Strategy Plan
 - 2012 East Shore Express Pilot Transit Plan
 - 2012 SR 28 East Shore Demonstration Transit Shuttle Concept Development/Feasibility Study
- Operating mid-June to Labor Day weekend
 - Intercept average of 2,102 vehicles
 - Reduction of 557.28 VMT
 - Congestion and safety benefits by removing conflicts
 - No loading/unloading/Uber/Lift drop offs at Hidden Beach









Corridor Team Adaptive Management

- Applied "Bus Only" red lanes to alert motorists no parking, stopping, or unloading in the Hidden Beach area to mitigate unsafe turn movements and congestion
- Have increased trash and restroom servicing from March to November
- Developing coordinated event management policies
- Increased signage on litter management
- Bike/pedestrian safety improvements
- Additional weed abatement









SR 28 Corridor Management Plan

https://www.tahoetransportation.org/projects/sr28-national-scenic-byway/

East Shore Express

https://www.tahoetransportation.org/routes/28/https://www.facebook.com/EastShoreExpress

Park Tahoe

https://www.tahoetransportation.org/parking/

Danielle Hughes
Capital Program Manager
dhughes@tahoetransportation.org











Marlette Creek Restoration and Water Quality Improvement Project

Eamonn Kerley, P.E.

Project Engineer

Nevada Tahoe Conservation District



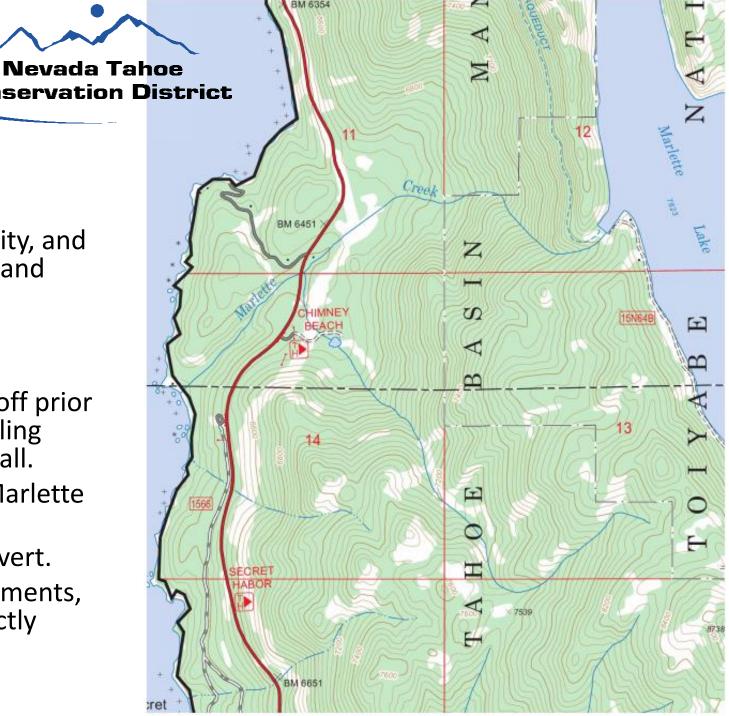
Conservation District

Goal

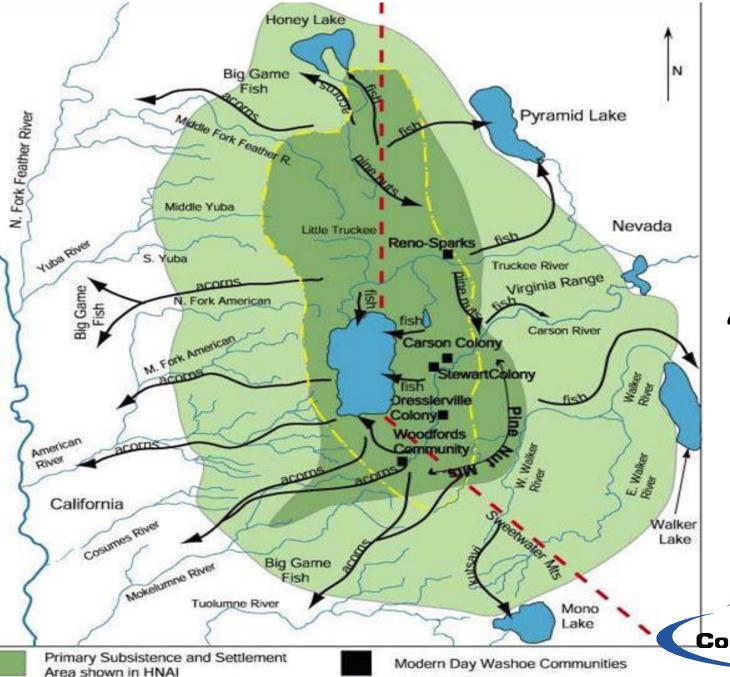
To improve stream function, water quality, and fish habitat and provide erosion control and stormwater treatment.

Objectives

- Capture and treat SR28 stormwater runoff prior to entering Marlette Creek by installing treatment at each stormwater outfall.
- Stabilize the bed of the South Fork of Marlette Creek using natural materials.
 - 3. Provide fish passage at the SR 28 culvert.
- 4. Stabilize SR 28 shoulders, road embankments, and dirt parking areas that are directly connected to Marlette Creek.







Area claimed in ICC Claims Case No. 288

Secondary Resource Area

Determined by Deward F. Walker, Jr.



"Where fish come out"







BACKGROUND

- 562 acre watershed
- Heavily used historically
- Marlette Lake constructed in 1873 impounds water
- Multiple earthen dams removed upstream from SR28
- Upstream reach of South Marlette Creek restored by USFS in 2003
- Marlette Lake Dam upgrades planned for 2023











ISSUES

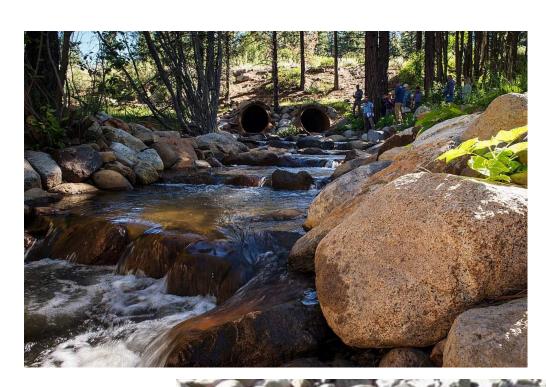
- Bed erosion and disconnection from floodplain on S. Marlette Creek
- Road embankment erosion
- Fish passage
 - Inside culvert
 - End of culvert
- Untreated road runoff













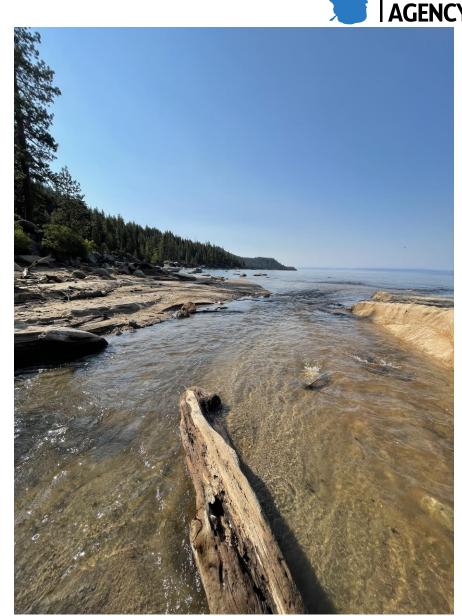






SCHEDULE

- Summer 2022 NDOT Stormwater Improvements https://inclinehighways.com/
- Summer 2023 Marlette Dam Repair and S. Fork Marlette Restoration
- Summer 2024 Marlette Creek
 Main Stem Restoration upstream
 and downstream of SR28





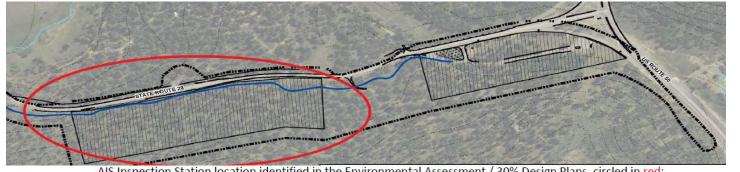




Aquatic Invasive Species Prevention and Control

- Spooner Summit Permanent Watercraft Inspection Station
- Sand Harbor Asian Clam Treatments and Monitoring

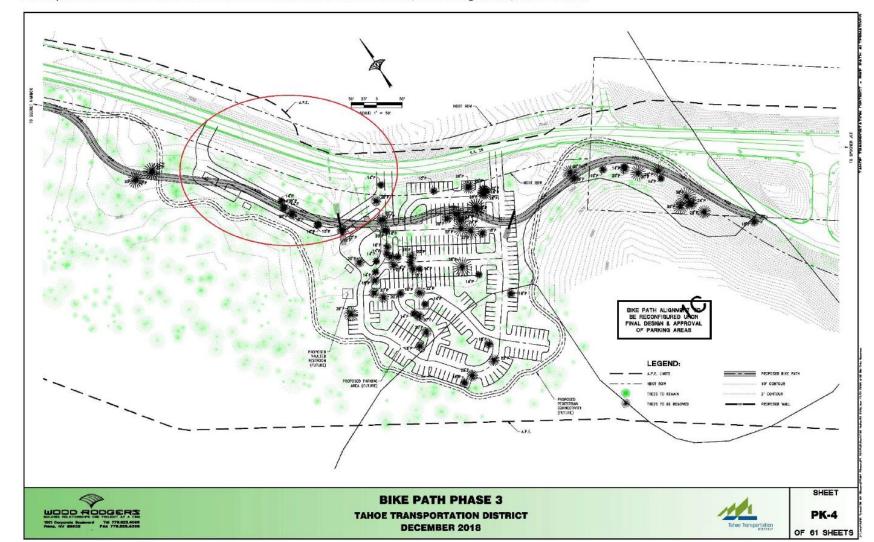






AIS Inspection Station location identified in the Environmental Assessment / 30% Design Plans, circled in red:

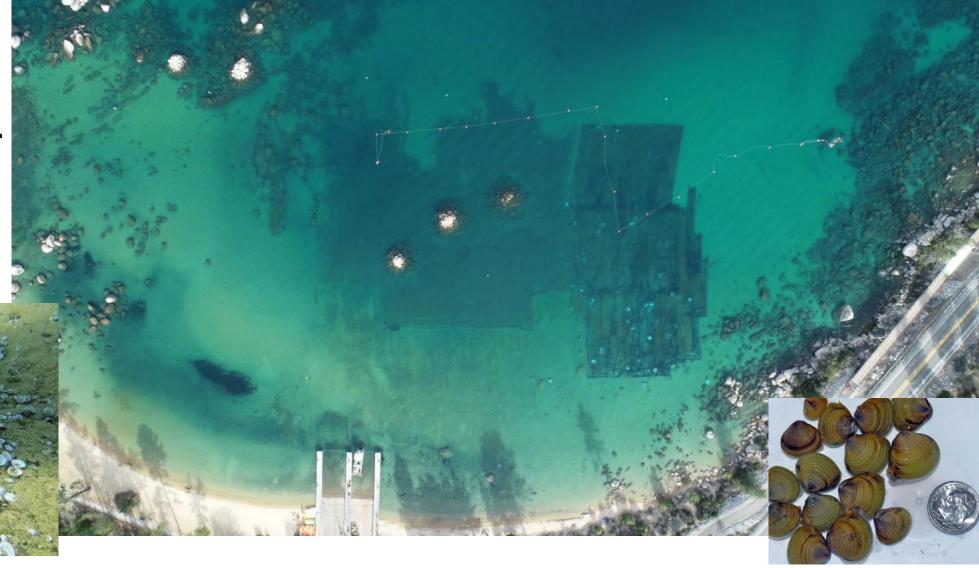
Spooner Summit AIS Inspection Station







Sand Harbor Asian Clam Control







Sand Harbor Asian Clam Control

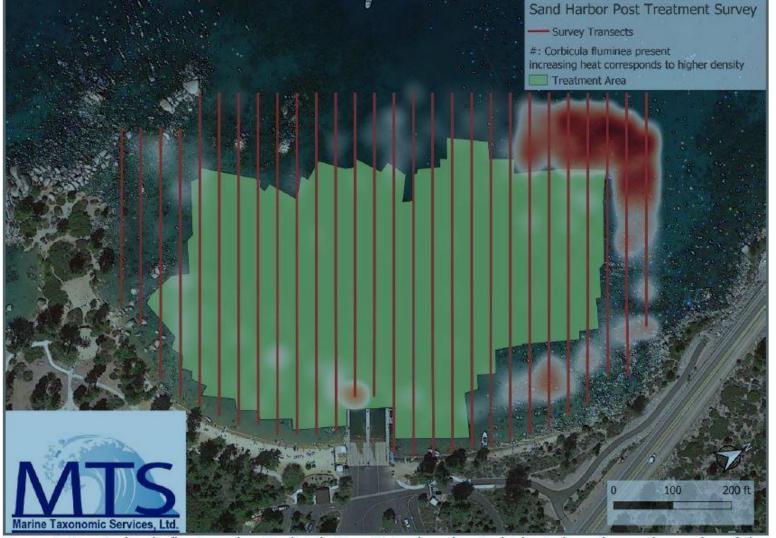


Figure 1. Live Corbicula fluminea density distribution. Note clam density highest along the northern edge of the treatment site.



Sand Harbor Asian Clam Monitoring

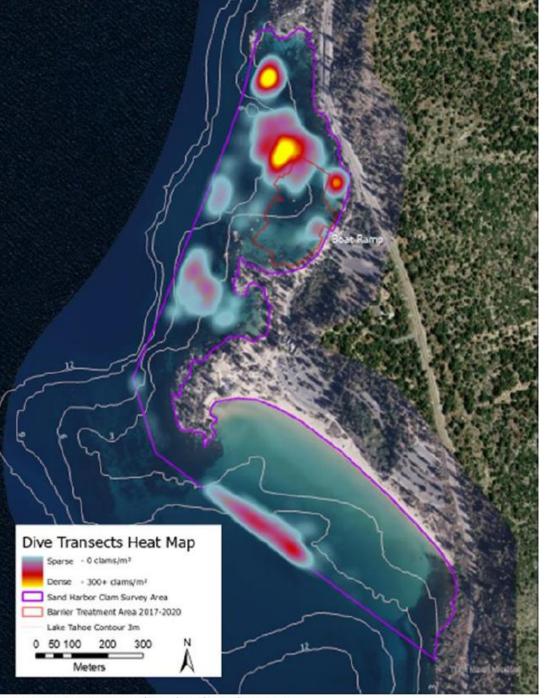


Figure 2: Dive transects clam abundance heat map.







Thank you!

Dennis Zabaglo, TRPA
Aquatic Resources Program Manager
dzabaglo@trpa.gov

Aquatic Invasive Species Prevention and Control

- Spooner Summit Permanent Watercraft Inspection Station
 - Sand Harbor Asian Clam Treatments and Monitoring











Nevada Lake Tahoe License Plate Program

Meredith Gosejohan, Tahoe Program Manager













- How it works
- Purchase a Lake Tahoe License Plate from the Nevada DMV at:

dmvnv.com/platescharitable.htm

- \$11 million through sales and renewal fees
- Funded over 175 preservation and restoration projects













Types of projects include:

- Implementation
- Monitoring
- Research and Science
- Education and Community Outreach





Before and after stream restoration and fish habitat improvements at Incline and Third Creek.









Implementation

Projects in the State Parks

- Interpretive elements for the new Visitor Center and amphitheater at Spooner Lake.
- ADA accessible overlooks and access points on the beach at Sand Harbor.







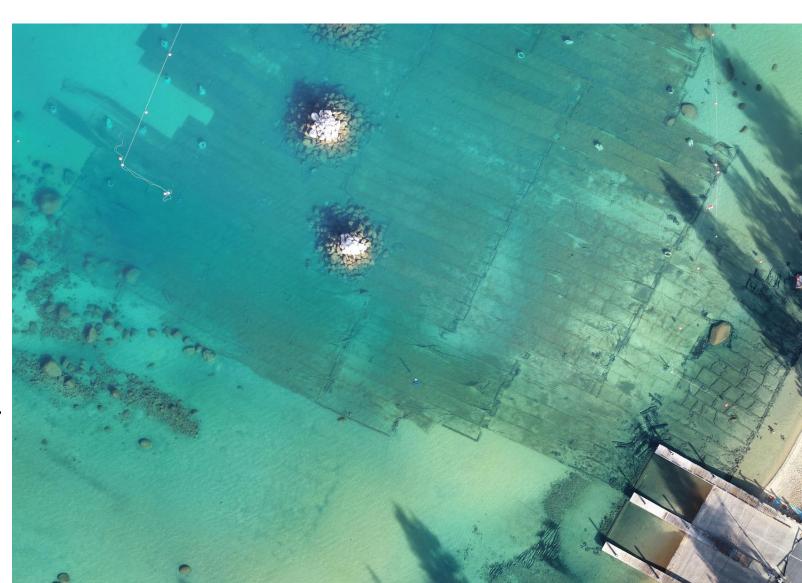




Monitoring

Aquatic Invasive Species removal projects

- Monitoring with university scientists to study Asian clam populations.
- Control methods including bottom barriers at Sand Harbor to deplete dissolved oxygen that Asian clams need.











Research and Science

Research on issues affecting lake clarity and forest health

- University of Nevada, Reno to study the long-term dynamics of aspen stands in the basin.
- Desert Research Institute to assess recent and historical changes in pollutant levels in the lake.











Education and Community Outreach

Projects that enhance knowledge and foster environmental stewardship

- Hands-on K-12 activities, live animal displays, and historic collections through the Museum of Natural History at UNR
- Sign panels and stands for sites along the Lake Tahoe Water Trail to promote safety and share information





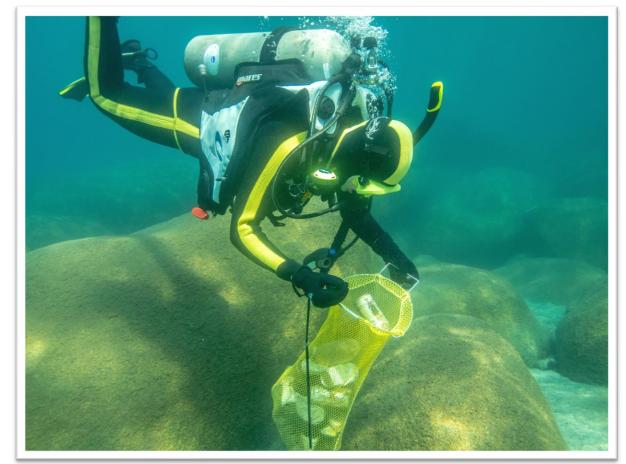






2022 Awards

- Underwater litter "hot spot" cleanup
- Marlette virtual nature trail
- Tourism stewardship roadmap
- Lake clarity and algae monitoring
- Tahoe Rim Trail visitor use monitoring
- Rare and sensitive plant monitoring and protection













Support these EIP projects and more by purchasing a Nevada Lake Tahoe License Plate!

dmvnv.com/platescharitable.htm



You can help drive a vibrant future for Lake Tahoe, today!



Contact Information:

Meredith Gosejohan, Tahoe Program Manager Email: mgosejohan@lands.nv.gov







